

## ECOPRE DIGESTION SYSTEM

For ultra-trace analysis of elements



### AT A GLANCE

- :: Semi-closed system for non-pressure digestion under reflux (corresponding DIN ISO 11466)
- :: Acid digestions using  $\text{HNO}_3$ ,  $\text{HCl}$ ,  $\text{HF}$ , etc.
- :: For elemental analysis of mineralogical, environmental and biological samples
- :: Sample amount up to 3 g
- :: Metal-free system by the use of PFA coated graphite heating block and vessels ('BaekDu') made of PFA

### BENEFITS

- :: Easy handling and cleaning
- :: Less acid vapors polluting the lab
- :: Reduced acid consumption
- :: Collection of volatile elements like Hg, B, As
- :: Reduced foaming compared to glass
- :: Compact design allows parallel digestion of many samples



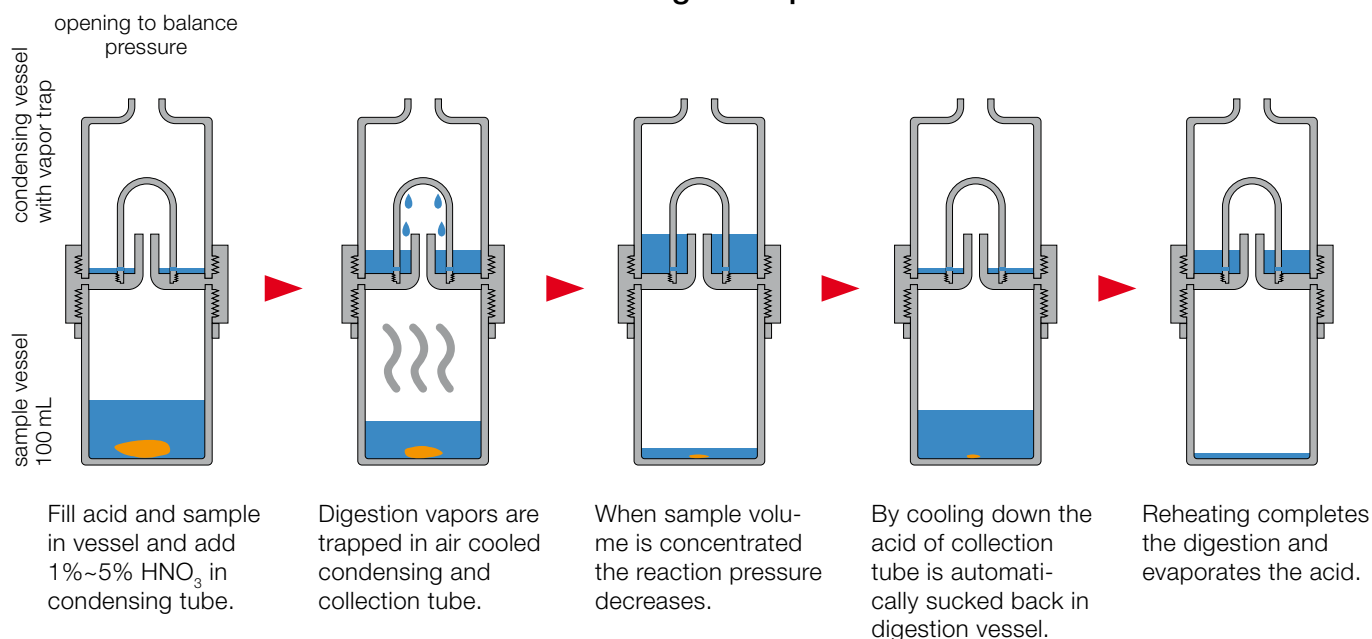
## SEMI-CLOSED DIGESTION SYSTEM ,BAEKDU'

- :: Completely made of fluorinated polymers PFA
- :: BaekDu vessels consists of:  
     digestion vessel (300 / 100 / 60 / 30 / 15 mL),  
     connection part with tube,  
     U-tube for condensation of acid,  
     cover with opening for pressure compensation
- :: Heating by metal-free graphite plate with external temperature regulator
- :: Heating plate and blocks available in various sizes
- :: Controller options: up/down; programmable;  
     7" TFT touch screen

## SCOPE OF APPLICATION

- :: Aqua regia dissolution of soils, sediments, sludges etc.
- :: Recovery experiment with reference material according to DIN ISO 11466 confirms reproducibility with preparation method
- :: Acid digestions of food, agricultural and environmental samples
- :: Alkaline digestions for heavy metal trace analysis, e.g. Chromium (VI)
- :: Methods described for different sample types

## Working Principle



Legal notice: BaekDu™ system patented by Odlab, Korea ([www.odlab.co.kr](http://www.odlab.co.kr)).